

Adam, Rouilly

SERVING MEDICAL EDUCATION WORLDWIDE

AR1000 SUPERIOR FEMALE BEDFORD DOLL
AR2000 SUPERIOR MALE BEDFORD DOLL

Instruction Manual



Thank you for purchasing this AR1000/AR2000 Bedford Doll.

The best-selling Superior Bedford Doll offers a range of features for both basic and advanced nursing procedures and scenarios.

From **basic patient handling, dressing and care** to **advanced intramuscular injection, tracheostomy, catheterisation and enteral feeding** the Superior Bedford Doll is an ideal full body patient manikin.

A **unique soft, palpable** and **washable skin** to ensure realism and **excellent durability** - ensuring years of reliable service.

Skills

- Articulated waist for greater flexibility
- Moulded colostomy stoma
- Bed positioning
- Patient handling
- Aspiration
- Bandaging - wet and dry
- Enema administration
- Intramuscular injections
- Nasogastric feeding
- Stoma care
- Stomach irrigation
- Suprapubic catheterisation
- Tracheostomy - dressing and nursing care
- Urethral catheterisation
- Washing

Safety and Precautions



Ink from ballpoint pens or markers must not be allowed to come into contact with any part of the Doll, as it cannot be removed.



Do not rotate the head more than 90° left or right, as this will twist the oesophageal tube.



Do not use strong detergents and abrasive cleaners to clean the model.



Initially a little hair may come out, this will decrease with use.



Ensure the ears and eyes are thoroughly dried after use.



The body, arms and legs are made of impermeable polyethylene and PVC. However, the inside of the Doll should be kept dry as liquid might seep through the various orifices into the padding.



The skin will crease at the elbows and knee joints - this is a normal characteristic.



Empty all reservoirs when the teaching session is finished and remove all plugs before storage to aid air circulation and help dry the internal reservoirs.



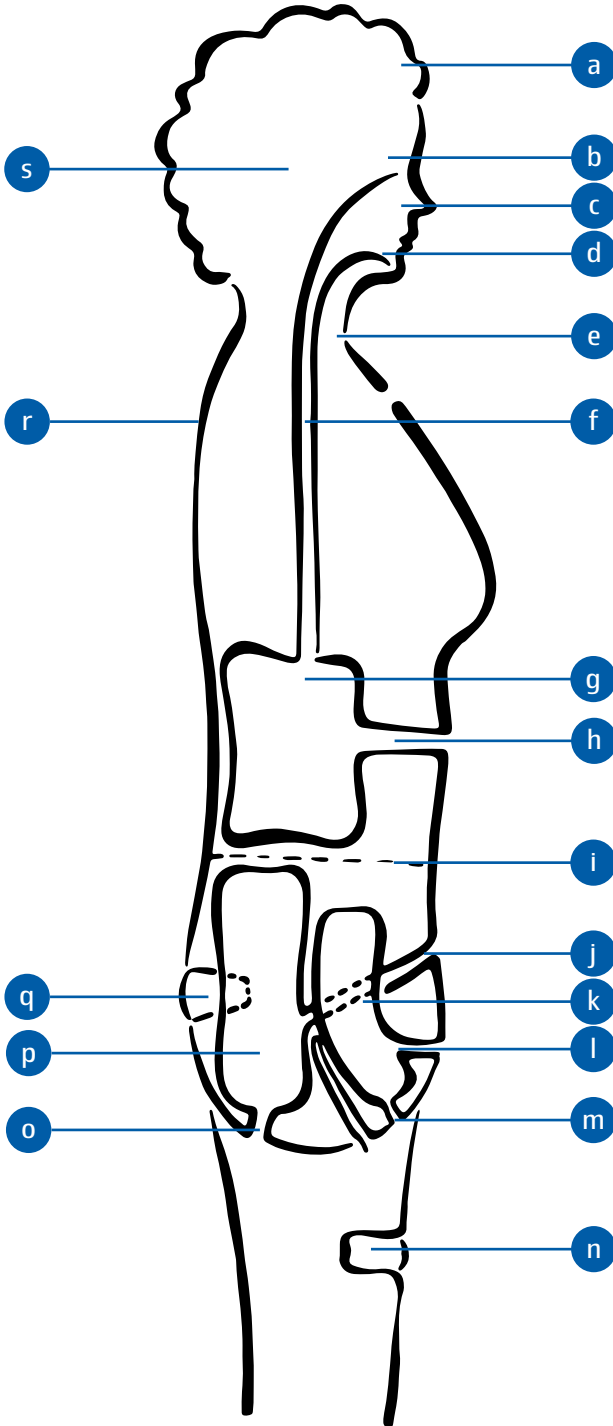
Please treat the simulator with the same care you would a patient.

Contents

Parts	4
- Supplied With	5
Before Use	
- Attach the Arms and Legs	7
- Interchangeable Genitalia (AR1000 only)	7
During Use: Range of Simulation	
- Hair	8
- Ears and Eyes	8
- Internal Reservoirs	8
- Nose	8
- Mouth	8
- Tracheostomy	9
- Gastrostomy/Internal Stomach Reservoir	9
- Colostomy/Anal Canal/Rectal Reservoir	9
- Suprapubic/Urethral Catheterisation and Urinary Reservoir	9
- Intramuscular and Hypodermic Injection Sites	10
- Skin: Washing, Bandaging and Dressing	10
- Articulated Waste and Hip Joints	10
- Hands and Feet	10
After Use	
- Cleaning/Replacement of the Internal Reservoirs	11
- Cleaning of the Skin	11
- Injection Site Cleaning/Replacement	11

Parts

Height: 1.65 m
Weight: 14.5 kg



- a Washable nylon rooted hair
- b Eyes
- c Nostril
- d Mouth
- e Tracheostomy
- f Oesophagus
- g **SPAR830A STOMACH RESERVOIR**
- h Gastrostomy
- i Articulated waist
- j Colostomy
- k **SPAR832A URINARY RESERVOIR**
- l Suprapubic orifice
- m **AR3 FEMALE GENITALIA UNIT (AR1000 only)**
AR4 MALE GENITALIA UNIT
- n **AR37 INTRAMUSCULAR INJECTION PAD** (thigh)
- o Anus
- p **SPAR833A RECTAL RESERVOIR**
- q **AR37 INTRAMUSCULAR INJECTION PAD** (buttock)
- r **AR37 INTRAMUSCULAR INJECTION PAD** (not shown, left arm)
- s Ears

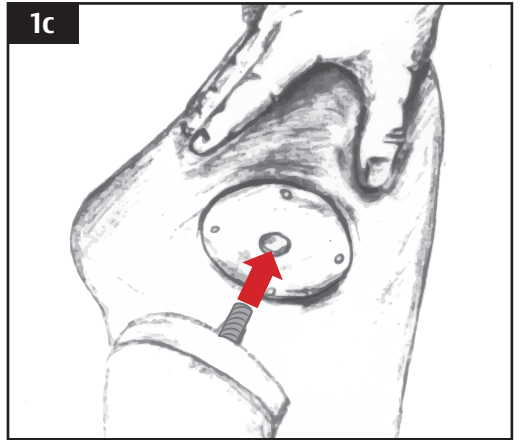
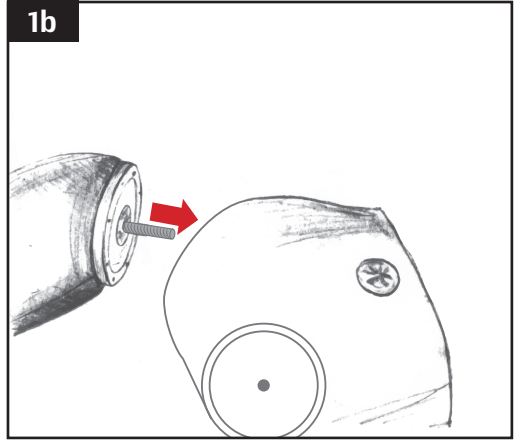
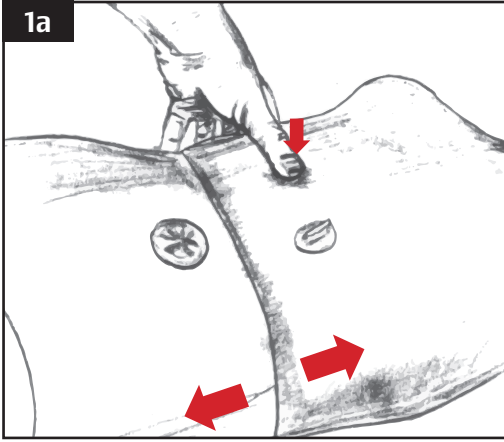
Supplied With

Interchangeable genitalia (AR1000 only)



If you require replacement parts please contact our Sales Department, quoting codes where applicable.

Before Use



Attach the Arms and Legs

Place the Doll on a stable, flat surface.

The legs and arms of the Doll must be attached before use.

1a

To attach the legs and arms to the Doll, separate the two halves of the body by pushing the release button concealed under the skin in the upper body.

Keep release button depressed whilst pulling upper and lower body apart.

1b

Remove wing nut and lock washer from the legs. Insert the bolts on the legs into hip plates and secure via the opening in the lower body.

1c

Repeat the same process to attach the arms.

1d

After attaching both arms and legs, reconnect the upper and lower halves of the Doll. Locate the connecting pin of the waist joint in the lower body into the socket of the waist joint in the upper body.

1e

Push the two halves of the body back together ensuring the stomach reservoir fits into the lower body. A “click” confirms that the two halves are secure.

The simulator is now ready for use.

Interchangeable Genitalia (AR1000 only)

The **AR1000 SUPERIOR FEMALE BEDFORD Doll** is supplied with interchangeable female and male genitalia.

2

When fitting the male or female units ensure that the transparent plastic tube is inserted into the upper orifice in the unit holder.

To remove genitalia from the holder pull gently.

The vagina, represented by a plastic tube, is closed at its end for vaginal douching.

During Use: Range of Simulation

Hair

- 3** Flexible PVC with rooted nylon hair that may be washed with shampoo, brushed and combed. The hair should be rinsed well to ensure that all traces of shampoo are removed.



Initially a little hair may come out, this will decrease with use.

Ears and Eyes

- 4** The ears and eyes of the Doll may be bathed and accept drops. Cleaning of the outer ear may be practiced however passages are closed. Eyes are fixed in the eye-sockets.



Ensure the ears and eyes are thoroughly dried after use.

Internal Reservoirs

- 5** The Bedford Doll has internal reservoirs, which represent stomach, urinary and rectal reservoirs as described below.

Only use water ensuring that gastrostomy, suprapubic and colostomy plugs are firmly in place.

Nose

- 6** Both nostrils are open and connect to the stomach reservoir for nasogastric feeding, aspiration or stomach irrigation. Before aspiration, ensure that the stomach tube has reached the lowest part of the stomach reservoir.

Stomach reservoir capacity: 500 ml



Nasogastric tubes up to size 12 Fr may be used.
Ryles tubes up to size 12 Fg should be used.

Mouth

- 7** For insertion of stomach tubes but not for intubation. The mouth should not be stretched open too far as this may result in splitting at the corners. Lanolin-based creams may be used on the lips but should not be allowed to enter the oesophagus.



Stomach tubes up to size 16 Fr may be used.



Do not rotate the head more than 90° left or right, as this will twist the oesophageal tube.

Tracheostomy

8

The tracheostomy orifice is for practising dressing only. A 22 CH Chevalier Jackson Tracheostomy cannula can be inserted into the opening.



Do not introduce fluids as there is no internal reservoir.

Gastrostomy/Stomach Reservoir

9

The gastrostomy is connected to the stomach reservoir and may accept gastrostomy devices. The stomach reservoir is connected to the oesophagus and gastrostomy.

Stomach reservoir capacity: 500 ml



Gastrostomy devices up to size 16 Fr may be used.

Colostomy/Anal Canal/Rectal Reservoir

10

The colostomy and anal canal are connected to the rectal reservoir. With the Doll in the left lateral position, a rectal catheter can be inserted and fluid can then be introduced into the rectal reservoir. Drainage can be performed by placing the Doll onto a bedpan, which creates a spontaneous flow.

Rectal reservoir capacity: 500 ml



Rectal catheters up to size 26 CH may be used.

Suprapubic/Urethral Catheterisation and Urinary Reservoir

11

The suprapubic orifice and urethral tube of the genitalia holder are both connected to the urinary reservoir.

The urethral tubes of both the female and male genitalia units accept balloon catheters. For practising catheterisation and bladder irrigation, the urethra has a non-return valve.

Remove the plug from the suprapubic orifice to prevent an air lock.

The penis must be raised to the correct position before inserting the catheter. The urinary reservoir can be filled through the suprapubic orifice.

Urinary reservoir capacity: 200 ml



Balloon catheters up to size 18 CH may be used.

During Use: Range of Simulation

Intramuscular and Hypodermic Injection Sites


12 Intramuscular injections can be demonstrated using the sites on the left thigh and buttock.


Hypodermic injections may be demonstrated using the pad on the upper left of the arm.

Skin: Washing, Bandaging and Dressing

13 Made of a durable, vinyl-coated fabric. Lukewarm water and soap should be used when washing the model.

Wet and dry bandaging, the application of splints and stump bandaging can be practised. (Stumps are available as an optional extra).

 The body, arms and legs are made of impermeable polyethylene and PVC. However, the inside of the Doll should be kept dry as liquid might seep through the various orifices into the padding.

 The skin will crease at the elbows and knee joints - this is a normal characteristic.


Articulated Waist and Hip Joints

14 The waist is articulated to allow movement of the upper body.

The nylon strip in the hip joint is designed to snap out if the legs are overextended.. It can easily be pushed back into place.

Hands and Feet

15 The hands and feet of the Doll are retained by ball joints, which allow free movement.

 The retaining wrist and ankle cups are screwed into the arms and legs. Should misuse cause either the hand or foot to come out, unscrew the cup and immerse it together with the ball joint in hot water for several minutes to soften before pushing ball back into cup.

After Use

Cleaning/Replacement of the Internal Reservoirs



Empty all reservoirs when the teaching session is finished and remove all plugs before storage to aid air circulation and help dry the internal reservoirs.

The stomach, urinary and rectal reservoirs may be removed to clean. These are disposable items and will need to be replaced periodically. To replace or clean a reservoir:

16

Access to the internal reservoirs is through the separated body halves (see **1a**). First disconnect all the reservoirs from their respective connections:

The **stomach reservoir** is connected to the oesophagus and gastrostomy by a push on connection. Pull stomach reservoir free of the gastrostomy and the oesophageal connectors.

The **urinary reservoir** is connected to the urethral tube of the genitalia holder and to the suprapubic orifice with a push-on connection. Urinary and rectal reservoirs are hooked on the upright of the waist joint in the lower body.

The **rectal reservoir** is connected to the anal canal and colostomy orifice by a push-on connection. Pull the rectal reservoir free of the anal and colostomy connectors

Next, remove the reservoirs by removing the protective sleeve covering hook ends and unhook the reservoirs.

Pull the suprapubic tube from the respective connectors in the lower body.

Pull the genitalia holder away from the body.

The reservoirs can now be pulled off the genitalia holder. To clean, we recommend using warm water and a mild detergent solution - allow to dry fully before refitting.

To replace the reservoirs reverse the procedure.

Cleaning of the Skin

17

Surgical spirit or adhesive remover should be used to clean the skin, when plasters or dressings have been used. Once the adhesive residue has been removed the surface of the Doll should then be washed in the normal manner.

The plugs should be removed prior to washing.

Injection Site Cleaning/Replacement

18

Injection pads should be taken out of their sockets for cleaning and replacement.

These are disposable items and will need to be replaced periodically.

Bedford Doll Renewal Service and Replacement Parts

Our Sales Department will be happy to advise on the repair service and replacement parts we offer to considerably extend the life of your Bedford Doll.

2 Year Guarantee



All products manufactured by Adam,Rouilly are covered by our full 2 Year Guarantee. This guarantee applies to models which have been used correctly and covers durability and functionality.

Adam,Rouilly

As part of our policy of continual product development, the specification of products may alter without prior notice.

Adam,Rouilly has over 100 year's experience in providing quality medical models and simulators.

Should you require any further information please contact our Sales Department who will be pleased to help with your enquiry.

Adam,Rouilly Limited
Castle Road
Eurolink Business Park
Sittingbourne
Kent
United Kingdom
ME10 3AG

T: +44(0)1795 471378
F: +44(0)1795 479787
E: sales@adam-rouilly.co.uk
www.adam-rouilly.co.uk